

CITY OF LODI

PUBLIC WORKS DEPARTMENT

COUNCIL COMMUNICATION

TO:

City Council

Project Data

FROM:

City Manager

Originally Budgeted: Budgeted Fund: Water Capital Outlay

1987/88

Bid Opening Date:

1/18/89

MEETING DATE:

February 1, 1989

AGENDA TITLE:

Award Contract for Well 22 Pump and Motor, 2040 South Cherokee

RECOMMENDEG ACTION: That the City Council award the contract for the above project to Zim Industries/Ingersoll-Rand in the amount of \$20,968.00.

BACKGROUND INFORMATION: This project consists of furnishing and installing a pump and mctor for Well 22.

The specifications included provisions for analyzing the bids based on an analysis of future power costs. The 12 bids received from 4 pump contractors are shown on the attached tabulation.

As noted in the footnotes, the bids from Moorman's Water Systems and Noack Pump Company included exceptions to the specified warranty. The City has requested a non-standard warranty on previous bids and has not had exceptions taken. The specified 4,000 hours instead of 1 year protects the City in the event the pump is not used very much in the first year. We have had one occasion in the past few years where a motor failed after 1 year but less than 4,000 hours. The supplier (Zim Industries/U.S. Motors) repaired the motor at no charge to the City. The two suppliers who did not take exception to the warranty were both contacted. They were aware of the requirement and were willing to provide the requested warranty.

It should also be noted that we received written notice of a numerical error in the bid from Noack/Byron Jackson, therefore, this bid should be withdrawn. Also, the analysis shows that the Worthington-Dresser pump proposed by Kirby's Pump is slightly more efficient than the Ingersoll-Rand unit proposed by Zim Industries. However, it would take approximately 10 years before the total costs were equal. Therefore, the recommendation is made that the contract be awarded to Zim Industries for the Ingersoll-Rand pump.

HOMAS A. DETERSON, Fity Manager

Jack L. Ronsko

Pub Vic Works Director

JLR/RCP/mt

Purchasing Officer cc: Water/Wastewater Supt.

Attachment

APPROVED:

FILE NO.

FILE NO.

CWELL22.5/TXTW.02M

January 24, 1989

Well 22 Pump & Motor Cost Analysis

Power Cost: \$ 0.07177 per Kwhr

Analysis Flow: 750 Million Gallons (MG)

Bidder Rank based on first cost	Pump Mfr/Model No. days delivery	Bid Price	I. Field Head	Flow (apm)	L Fric.	T. Lab Head	Bowl Eff.	Lob HP	HP Lo Shaft	sses Bearing	Broke HP	Field [11,	Motor Eff.	Overall E11.	Inpul Kw	Pumping Hours	Power Cost	lolal Cost	Ronk
Moorman's Water Systems +		\$ 19,613.00 1,050.00 20,663.00	320 270 232	400 1500 1780	0.00 3.08 5.88	320.00 273.08 235.88	0.700 0.840 0.810	46.18 123.14 130.90	1.92 1.92 1.97	0.50 0.44 0.40	48.50 125.50 133.22	0.665 0.815 0.783	0.943 0.943 0.943	0.627 0.768 0:738	38.44 99.28 105,39	10417 2778 2341	\$ 66,239	\$ 86,902	1
Moorman's Water Systems + 7-8	Peabody - Floway 14DKL 115	20,125.00 1,050.00 21,175.00	.520 270 232	1100 1500 1700	1.80 4.00 5.20	321.80 274.00 237.20	0.754 0.840 0.835	118.55 123.56 121.95	1.80 1.80 1.80	1,80 1,50 1,40	122.15 126.86 125.15	0.728 0.806 0.796	0.943 0.943 0.943	0.686 0.760 0.750	96.63 100.36 99.01	3788 2778 24 51	\$ 63,693	\$ 84,868	4
Maarman's Water Systems • 7-8	Peabody -Floway 140KM 115	20,125.00 1,050.00 21,175.00	320 270 232	925 1500 1750	1 60 4,00 5,20	321.60 274.00 237.20	0.674 0.843 0.845	111.46 123.12 124.05	1.80 1.80 1.80	1.80 1.50 1.40	115.06 126.47 127.25	0.650 0.809 0.806	0.943 0.943 0.943	0.613 0.763 0.760	91.02 100.01 100.67	4505 2778 2381	\$ 66,565	\$ 87,740	8
Noark Pamp Co *** 2 3	Peabody - Floway 14DKL 105	19,111.00 750.00 19,861.00	329 270 232	1100 1500 1700	1,80 4,00 5,20	321.80 774.00 237.20	0.754 0.840 0.835	118.55 123.56 121.95	1,80 1,80 1,80	1.80 1.50 1.40	122.15 126.86 125.15	0.728 0.806 0.796	0.943 0.943 0.943	0.686 0.760 0.750	96.63 100.36 99.01	2451	\$ 65,693	\$ 83,554	1
Noack Pump Co. *** 2-3	Peabody Floway 140KM 105	19,111,00 /50,00 19,861,00	320 270 232	925 1500 1750	1.60 4.00 5.20	321.60 274.00 237.20	0.674 0.843 0.845	111.46 123.12 124.05	1.80 1.80 1.80	1.80 1.50 1,40	115.06 126.42 127.25	0.650 9.08.0 9.08.0	0.943 0.943 0.943	0.613 0.763 0.760	91.02 100.01 100.67		\$ 66,565	\$ 86,426	6
Noack Pump Co. * ** 4	Goulds 14 RJFC 105	19,703.00 750.00 29,453.00	370 770 237	1110 1500 1725	2.12 3.60 4.60	322.12 273.60 236.60	0.750 0.830 0.810	120.39 124.86 127.24	1.76 1.76 1.76	0.69 0.60 0.53	127.84 127.22 129.53	0.730 0.804 0.780	0.943 0,943 0.943	0.689 0.758 0.735	97,18 100.65 107,47		\$ 64,009	\$ 84,462	2
Nogek Pump Co + ¶ B	Peerless 14 MC 120	20,823.00 750.00 21,573.00	.520 270 252	900 1500 1730	1,59 5,86 5,44	321.59 273.86 237.44	0.600 0.820 0.820	121.81 126.51 126.50	2.00 2.00 2.00	0.55 0.41 0.33	124,37 128,92 128,83	0.585 0.793 0.787	0.943 0.943 0.943	0,551 0,748 0,742	98.39 101.99 101.97	27.78	\$ 70,641	\$ 92,214	11
Nonck Pump Co. * bid error	Byron Jackson 1.3MOH 75 corrected to \$2357	19,703.00 750.00 73 20,453.60	270	1000 1500 1700	1,58 3,18 3,56	321.58 273.18 235.56	0.760 0.820 0.790	106.85 126.19 128.01	1,68 1,68 1,68	0.60 0.48 0.40	109.13 128.35 1.50.09	0,740 0,797 0,766	0.943 0.943 0.943	0.751	86.33 101.54 102.91	2778	\$ 64,162		
Zim ledustries	Fairbanks Morse 14M 112	18,752.00 800.00 19,552.00	270	625 1500 1760	0.00 3.70 4.60	320.00 273.70 236.60	0.650 0.840 0.810	77,70 123,42 129,82	1.89 1.89 1.89	0.50 0.40 0.40	80.09 125,71 132,11		0.943 0.943 0.943	0.767	63.36 99.45 104.5	2778	\$ 67,899	\$ 87,451	9
Zim Industries C	Ingersoil Rond 12NKL 112	20.168.00 809.00 20.968.00	270	1025 1500 1760	2.50 4.20 5.10	322.50 274.20 237.10	0.750 0.850 0.825	111.30 122.19 127.73	1.89 1.89 1.89	0.80 0.70 0.65	113,99 124,78 130,27	0.820	0.943 0.943 0.943	0.773	90.18 98,71 103.00	2778	\$ 63,499	\$ 84,467	3
Kirby's Pump 10	Worthington - Dresser 154 15M1	20,878.00 54 1,000.00 21,878.00	270	960 1500 1760	1,30 3,50 4,30	321.30 273.50 236.30	0.845	103.85 122.60 126.53	1.80	0,60 0.60 0.50	106.25 125.00 128.83	0.818	0.943 0.943 0.943	0.772	84.06 98.89 101.91	2778	\$ 63,215	\$ 85,093	5
Kirby's Pump	Byron Jackson 13MQH 154	22,827.00 1,000.00 23,827.00	270	1000 1500 1700	1.58 3.18 3.56	321.58 273.18 235.56	0.820	106.85 126.19 128.01		0.60 0.48 0.40	109.13 128.35 130.09	0.797	0.943 0.943 0.943	0.751	86.33 101.5 102.9	4 2778	\$ 64,162	\$ 87,989	10

I year from start up warranty instead of 4000 hrs specified
 offered \$472 deduct for std, lineshaft

^{***} same as * plus qualification that well straightness may affect warranty I aluminum frame motor instead of cast iron specified

RESOLUTION NO. 89-14

A RESOLUTION OF THE LODI CITY COUNCIL AWARDING THE CONTRACT FOR WELL 22 PUMP AND MOTOR 2040 SOUTH CHEROKEE LANE, LODI

WHEREAS, in answer to notice duly published in accordance with law and the order of this City Council, sealed bids were received and publicly opened on January 18, 1989 at 11:00 a.m. for the contract for Well 22 pump and motor, 2040 South Cherokee Lane, Lodi, described in the specifications therefor approved by the City Council on December 21, 1988; and

WHEREAS, said bids have been compared, checked, and tabulated and a report thereof filed with the City Manager as shown on Exhibit A attached hereto and incorporated herein; and

WHEREAS, as noted in the footnotes, the bids from Moorman's Water Systems and Noack Pump Company included exceptions to the specified warranty; arid

WHEREAS, written notice was received of a numerical error in the bid from Noack/Byron Jackson, and therefore, this bid should be withdrawn; and

WHEREAS, the City Manager recommends that award of the contract far Well 22 pump and motor be made to Zim Industries for the Ingersoll-Rand pump;

NOW, THEREFORE, BE IT RESOLYED by the City Council of the City of Lodi that award of contract for Well 22 pump and motor, 2040 South Cherokee Lane be and the same is hereby awarded to Zim Industries for the Ingersoll-Rand pump, in the amount of \$20,968.00.

Dated: February 1, 1989

I hereby certify that Resolution No. 89-14 was passed and adopted by the City Council of the City of Lodi in a regular meeting held February 1, 1989 by the following vote:

Ayes: Council Members - Hinchman, Olson, Reid, Snider and

Pinkerton (Mayor)

Noes: Council Members - None

Absent: Council Members - None

Alice M. Reimche City Clerk

Well 22 Pump & Motor Cost Analysis

Power Cost: \$ 0.07177 per Kwhr Analysis Flow: 750 Million Gallons (MG)

Boder Topos balloa on first cost	Pump Utr/Wodel No. days delivery	Hid Price Mat/Lob/Total	I Field Head	How (gpm)	I. Fric. Fosses	I. Lab Bead	Bowl	Lab HP	HP (osses Bearing	Brake HII	Lield EIL	Motor [11.	Overall E11.	Input K#	Pumping Hours	Power Cost	lotal Cost	Rank
Modernan's Water Systems + 5	1, Morse 14W 7000 115	\$ 19,61.5 00 1,050 00 20,663.00	320 270 232	400 1500 1780	0.00 3.08 3.88	.520 00 273.08 235.88	0.700 0.840 0.810	46:18 123:14 130:90	1.92 1.92 1.92	0.50 0.44 0.40	48.60 125.50 133.22	0.665 0.815 0.783	0.943 0.943 0.943	0.627 0.768 0.738	.58.44 99.28 105.39	10417 2778 2341	\$ 66,239	\$ 86.902	7
Moorman's Water Systems +		20,125.00	520	1100	1.80	321.80 274.00	0.754	118.55 123.56	1.80	1.80	122.15 126.86	0.728 0.806	0.94 <i>3</i> 0.94 <i>3</i>	0 686 0.760	96.63 100.36	3788 2778			
/ K	115	21,175.00	270 257	15/00 1700	5.20	237.70	0.835	171,95	1.80	1.40	125.15	0.796	0.943	0.750	99,01	2451	\$ 63,693	\$ 84,868	4
Noceman's Water Systems * 7-8	Probody Flowdy 140KM 115	20,125 00 1,050 00 21,175 00	320 270 232	925 1500 1750	1.60 4.00 5.20	321-60 274.00 237.20	0.674 0.84 5 0.845	111,46 123,12 124,05	1.80 1.80 1.80	1.80 1.50 1,40	115.06 126.42 127.25	0.809 0.809 0.6%	0 943 0 943 0 943	0.763 0.763 0.760	91 07 100.01 100.67	41,05 2778 2,981	\$ 66,565	\$ 87,740	8
Noce & Pagg. Co. ***	Peatrody Deway 140K[105	19 111 (X) 731 (X) 19 161 (X)	320 270 232	11(K) 15(K) 17(K)	1,80 4 (X) 5,20	521-80 274-00 237-20	0.754 0.840 0.835	118.55 123.56 121.95	1.80 1.80 1.80	1.80 1.50 1,40	122-15 126-86 125-15	0.728 0.806 0.796	0.943 0.943 0.943	0.686 0.760 0.750	96 63 100.36 99,01	3788 2778 2451	\$ 63,693	\$ 83,554	1
Bear & Panip Co. ***	Peabody Floway 140KM 1(P)	19,111 0 0 750 00	570 270	925 1500 1750	1,60 4.00 5.20	321.60 274.00 237.20	0.674 0.843 0.845	111.46 123.12 124.05	1,80 1,80 1,80	1,80 1,50 1,40	115 06 126.42 127.25	() 650 () 809 () 806	0.94.5 0.94.5 0.94.5	0.61.5 0.765 0.760	91 02 100 01 100.67		\$ 66,565	\$ 86.426	6
Bouck Pump Co + ++	Goulds 14 RUss. 105	19,861,00 19,703,00 750,00	320 270	1110 1500	7 17 3.60	322.12 273.60	0 /50 0.850	120.39 124.86	1.76 1.76	0.69 0.60	127.84 127.22	0 730 0.804	0 943 0 943 0 943	0.689 0.758 0.736	97.18 100.65 107.47		\$ 64,009	1 84,467	7
Bosick Pump Co + I	Perdess 14 PC 170	20,453 00 20,873 00 750 00	520	900 1500	4.60 1.59 5.86	736.60 321.59 273.86	0.810 0.600 0.820	127.24 121.81 126.51	1.76 2.00 2.00	0.53 0.56 0.41	129.53 124.37 128.97	0.780 0.785 0.793	0 94.5 0 94.5	0,551 0,748	98-59 101-99	46.90 9 2778		\$ 92,214	11
Name Paris Co	Hyron Jackson 1.3MQH	21,573.00 19,703.00		1730	5.44 1.58	257.44 321.58		126.50 106.85		0.33	128.83	0.787	0.943	0.698	101.93 86.33	4167	\$ 70,641	1 97.211	• • •
(a) error	75 corrected to \$2357	750 0X 73 20,453.00	-	1500 1700		273.18 235.56		126,19 128 01	1.68 1.68	0.48 0.40	128-35 130-09	0.797	0.943		101.5 102.9		\$ 64,162		
Zinclindostnes T	Edirbanks Morse 14M 117	18,752.00 800 0x 19,552.00	2/0	625 1500 1760		320.00 273.70 236.60	0.840	/7.70 123.42 129.82		0.50 0.40 0.40	80.09 125 /1 132.11	0.631 0.814 0.780	0.943 0.943 0.943	0.767	63.36 99.45 104 5	2778	\$ 67,899	\$ 87,451	9
Zin todustries 6	Ingersoll Rand 12NKL 112	2G, 168.0x 800.0X 20,968.00	270	1025 1500 1760	4.20	327.50 274.20 237.10	0.850	111.30 127.19 127.73	1.89		113.99 124.78 130.27		0.943 0.943 0.943	0.775	90.18 98.71 103.0	2778	\$ 63,499	\$ 84,467	5
Kirby's Parity 10	Worthington Drevser 154 15M15	20,878.00 54 1,000.00 21,878.00	2/0	960 1500 1760		.521.50 273.50 256.50	0.845	127.60	1.80		105 25 125 00 128 83	0.818	0.943 0.943 0.943	0.777	84.00 98.89 101.9	7778	\$ 63,215	\$ 85,093	5
Kirty's Ponque	Byron Jackson 1.5MQH 154	27.827.00 1,000.00 23.827.00) 320 <u>1</u> 270	1000 1500 1700	1.58 3.18	321.58 273.18 235.56	0.760 0.870	106 85 126,19	1.68	0.60 0.48	109.13 128.35 130.19	0.740 0.797	0.943 0.943	0.698 0.751	101.5	4 77/8	\$ 64,162	\$ 87,989	10

Notes

** ...Hered \$472, deduct for std. lineshaft.

••• some as • plus qualification that well straightness may affect warranty \dagger aluminum frame motor instead of cost iron specified

1/23/89 P&NW22.XLS



^{+ 1} year from start, up warranty instead of 4000 hrs specified